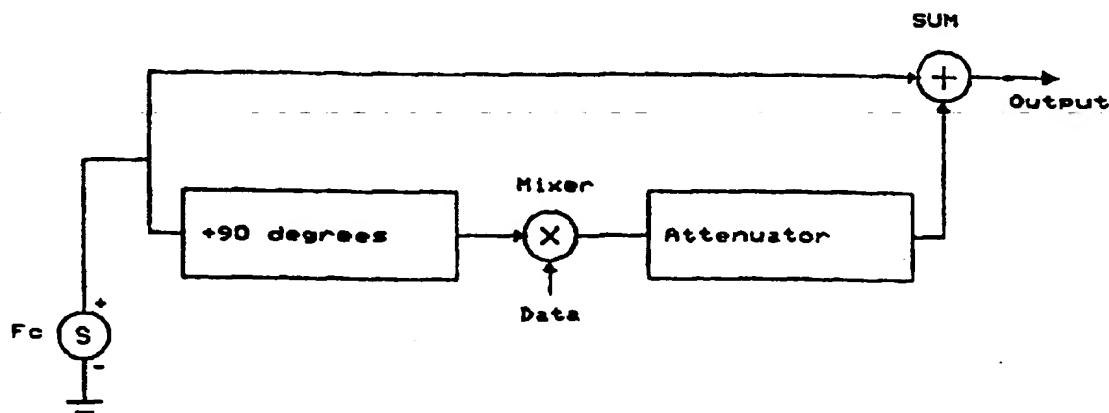




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(54) Title: A TRANSMITTER AND A METHOD FOR TRANSMITTING DATA



Method of Modulating Excitation Signal

(57) Abstract

An excitation reference source (Fc) is split through a 90 degree splitter. One output from the splitter is fed to the LO port of a mixer. Data is fed to the mixer's IF port and causes PRK modulation of the LO port's signal. The output of the mixer at the RF port is a PRK modulated quadrature signal. This is attenuated and added back onto the reference by a zero degree combiner ready for transmission to the transponder.